IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : D. Amnon Silverstein   Art Unit   : 2612
Serial No. : 09/484,667   Examiner : Rosendale, Matthew L.
Filed   : Jan. 18, 2000
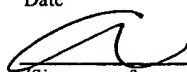Title   : POINTING DEVICE FOR DIGITAL CAMERA DISPLAY

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

EXHIBIT J

Capybara

A viewfinder camera testbed

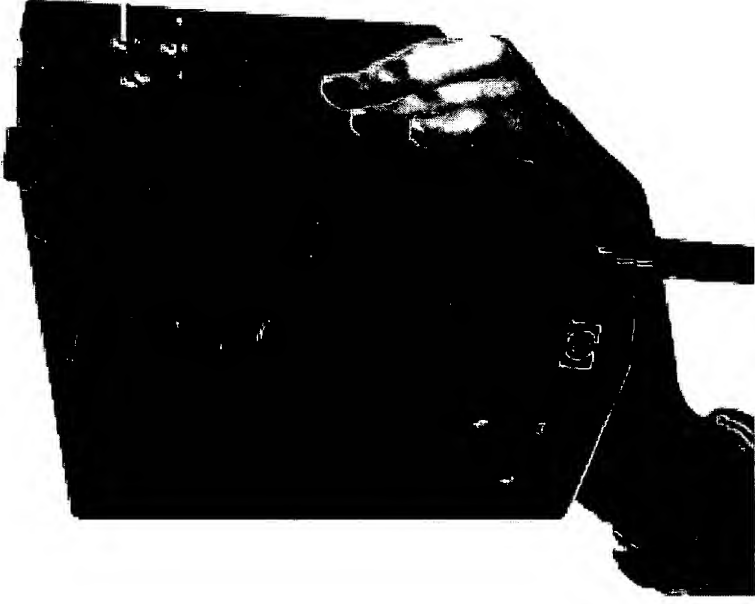Amnon Silverstein, Ada Chan, Chetan Nandakumar

A New Camera Use Model

- Capture, store, index and review images with the camera

- Edit images with the camera

- Print directly from the camera

This is all possible because the new camera has high display quality and a motion sensor which allows an easy user interface.

Capybara Team

Amnon Silverstein (ITD) Software Leader
Chetan Nandakumar (SEED) Software Development
Ada Chan (SEED) Software Development
Joyce Farrell (ITD) Project Manager

With help from:
Heather Bean (HID) Hardware Specialist
Neela Gaddis(CORL) Microdisplay Leader
Ken Nishimura(CORL) Microdisplay Hardware
Pierre Mertz (CORL) Microdisplay Hardware
Andy Patti (ITD) CAST Software
Yucel Altunbasak (ITD) CAST Software
Bob Gann (Greely) CAST Configuration
Susie Wee (VCD) Image Capture Software
Dan Tretter (ITD) Imaging Software
Xuemei Zhang (ITD) C++ Programming
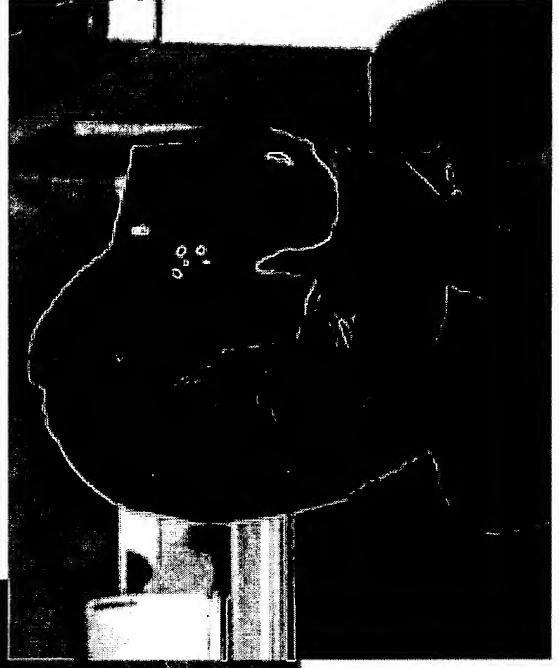Barry Bronson (HPL) Design Concept Advice

Summer 1999
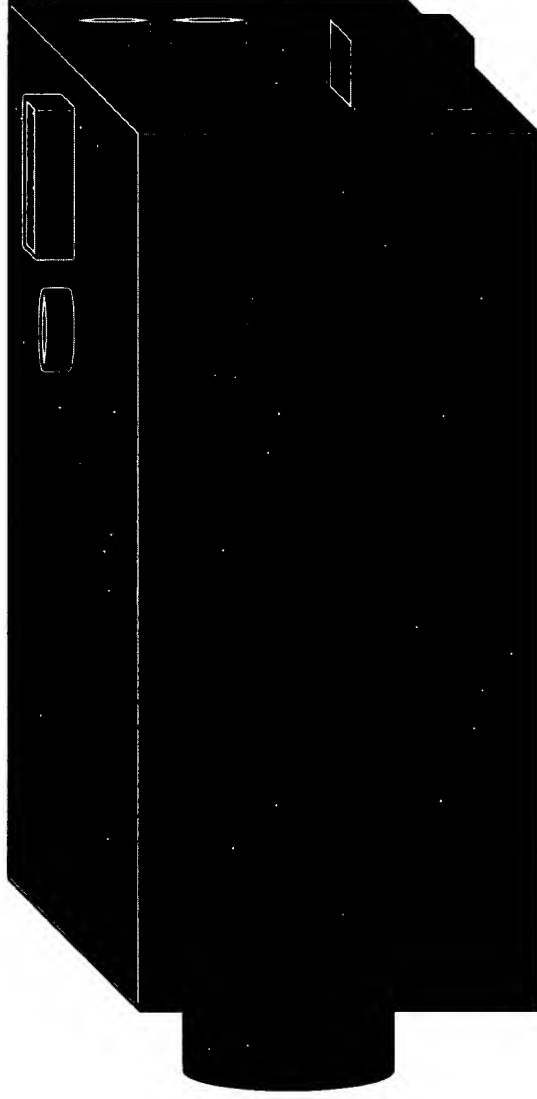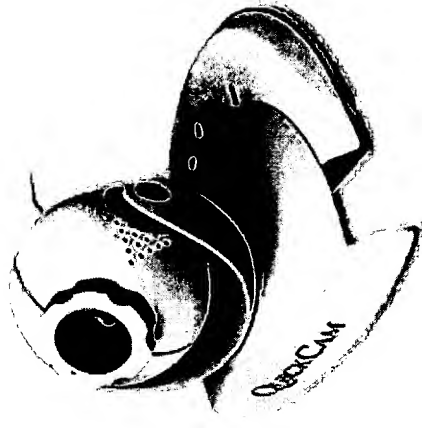
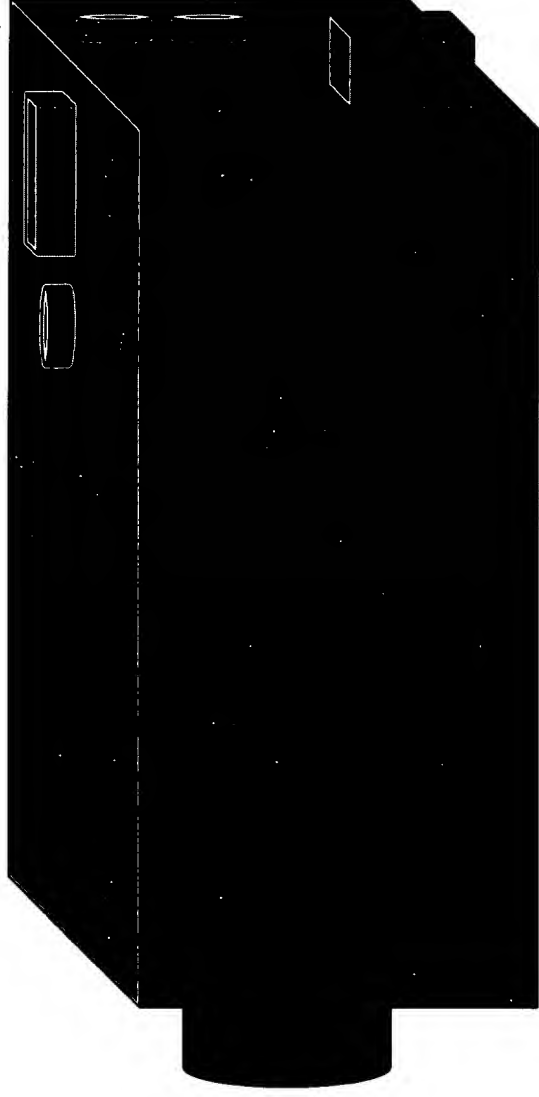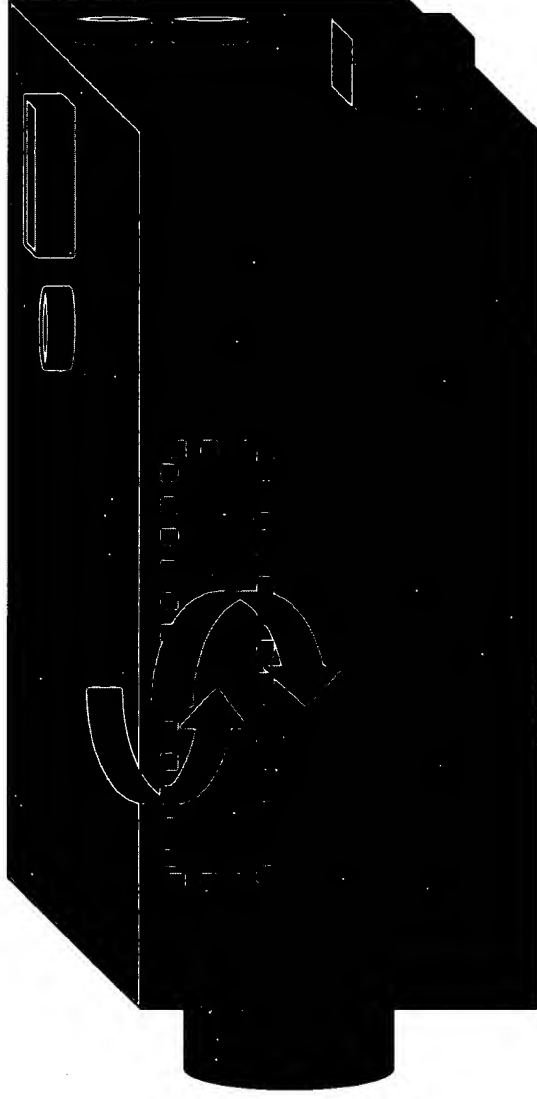June

July
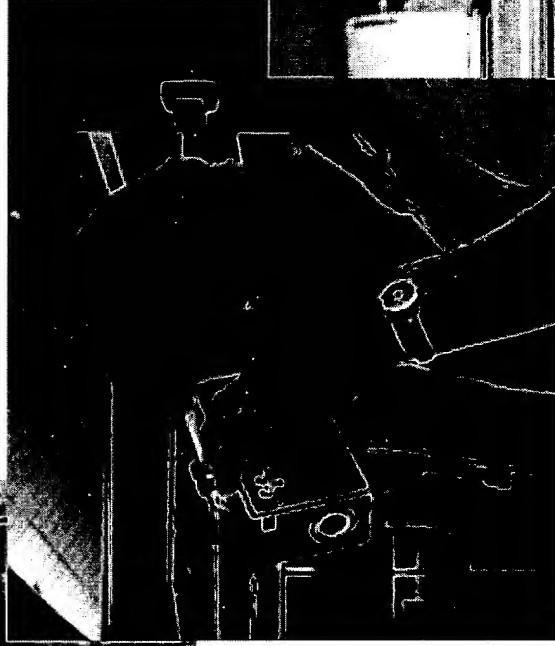
August

Key Features

Key Features

Camera sensor
is just a QuickCam

Key Features

Gyration
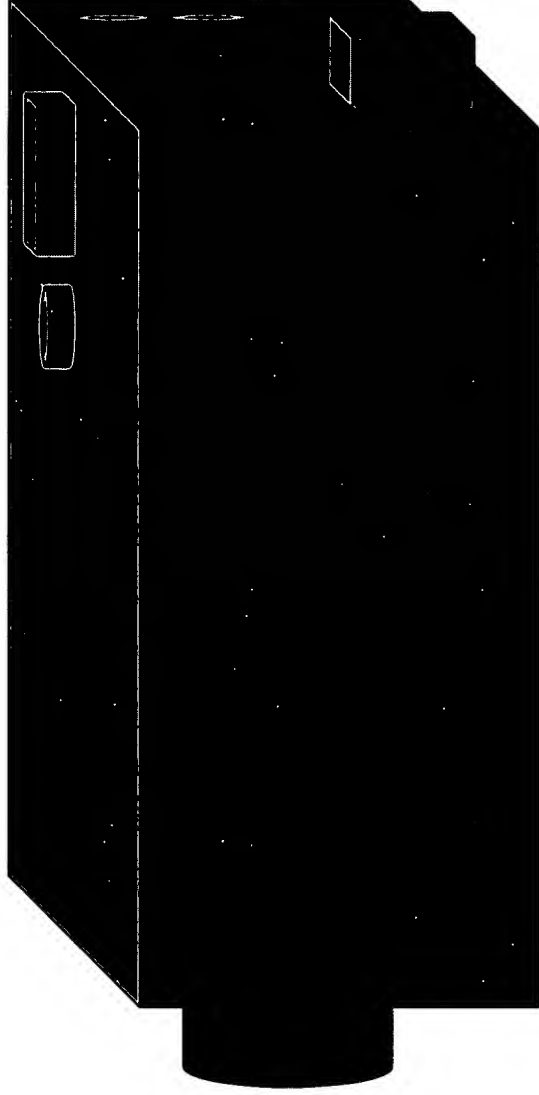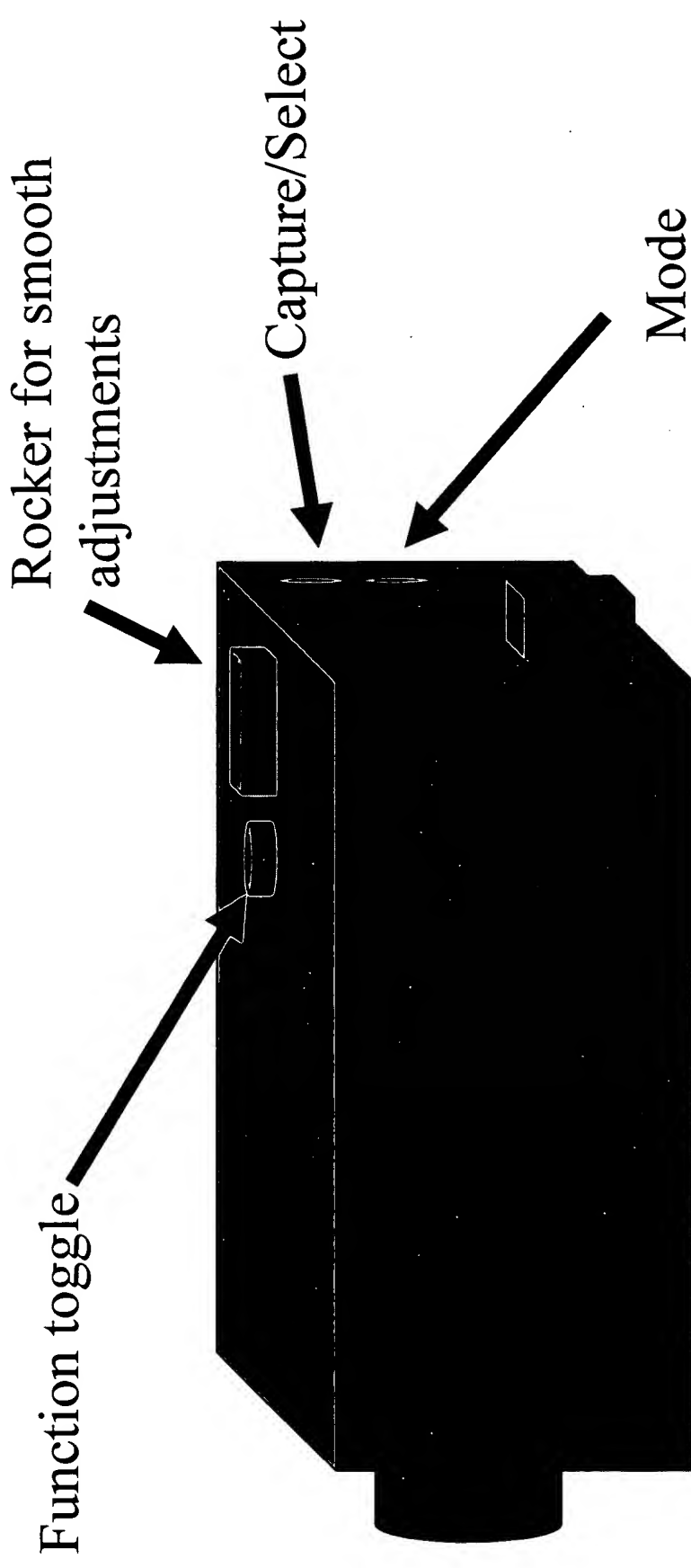Microgyro

Micro-gyro sensor
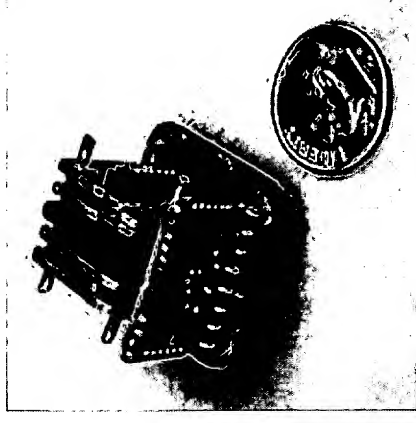
Key Features

Pushbutton user interface

Key Features

Rocker for smooth adjustments

Capture/Select

Mode

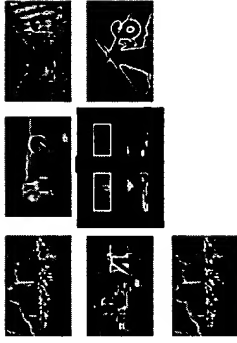Function toggle

Key Features
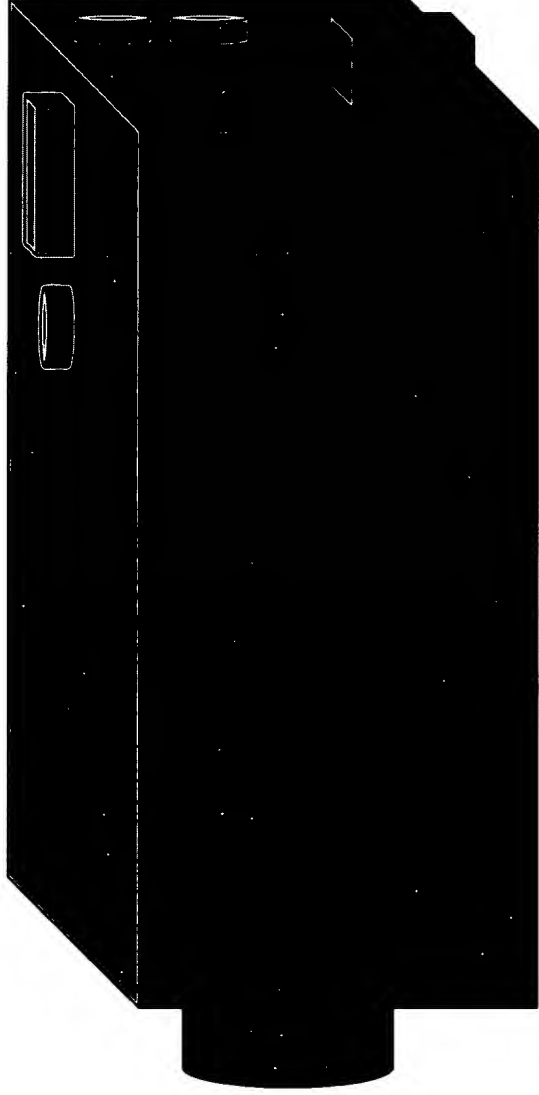
Microdisplay: Much higher resolution and image quality than a camcorder display

What's New?

On board editing and printing

Motion based UI
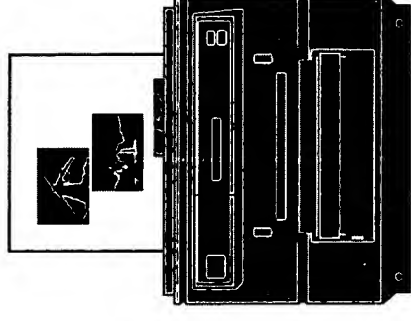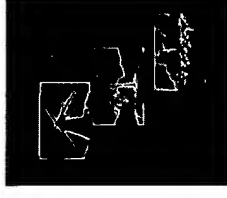
Panoramic capture and review

Software Modes

Viewfinder	Organizer	Viewer	Editor	Layout
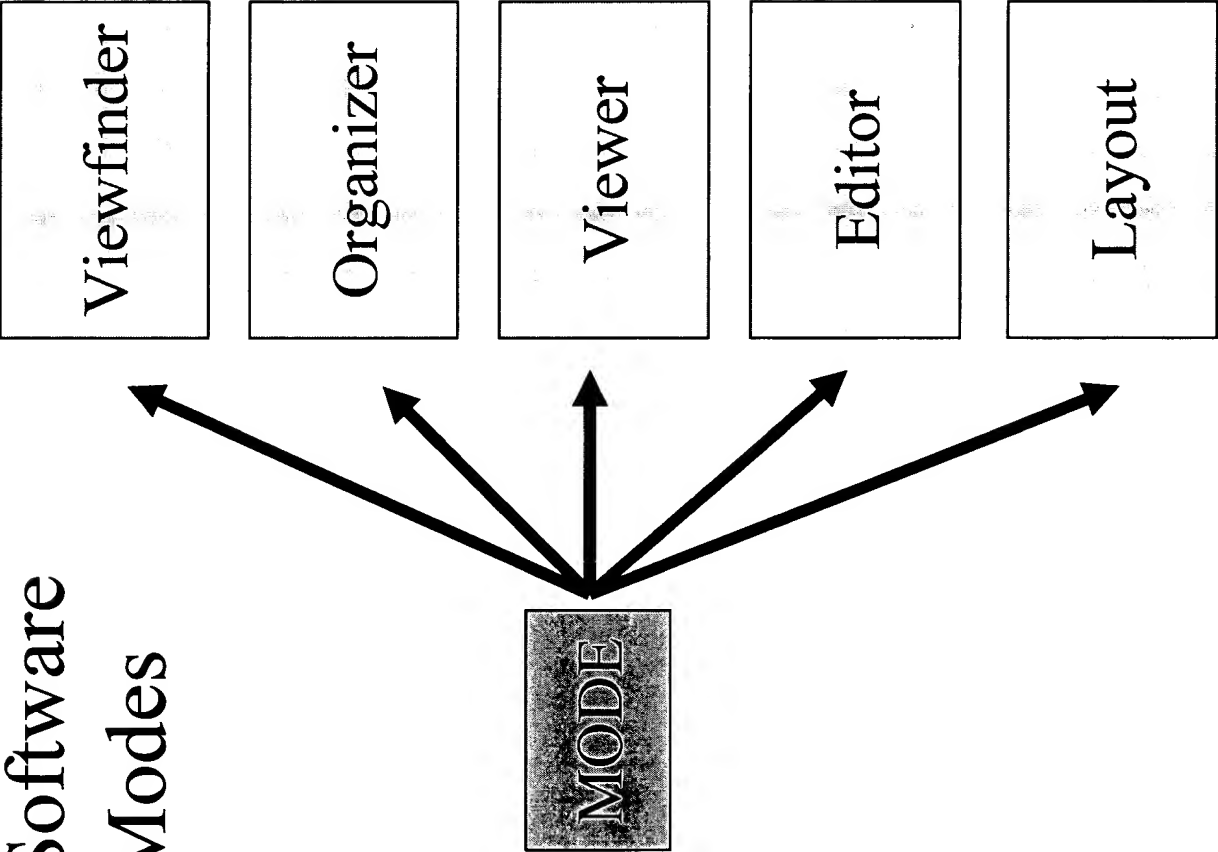
MODE

Software Modes

- Closed circuit video
- Capture with SELECT
- Framing and status
- Zoom with ROCKER

Organizer

Viewer

Editor

Layout

Software Modes

- Thumbnail SELECT
- Function key chooses:
  - Printing
  - Layout
  - Delete
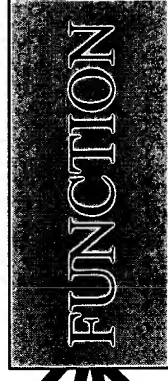 - Review
  - Multi pages
  - Albums

FUNCTION

| Viewfinder | | Viewer | Editor | Layout |

Software Modes

- Panoramic tracking
- Zoom ROCKER

| Viewfinder | Organizer | | Editor | Layout |

FUNCTION

- Crop
- Color adjust
- Brightness
- Contrast

Software
Modes

| Viewfinder | Organizer | Viewer | | Layout |

Software Modes

- **Viewfinder**
- **Organizer**
- **Viewer**
- **Editor**
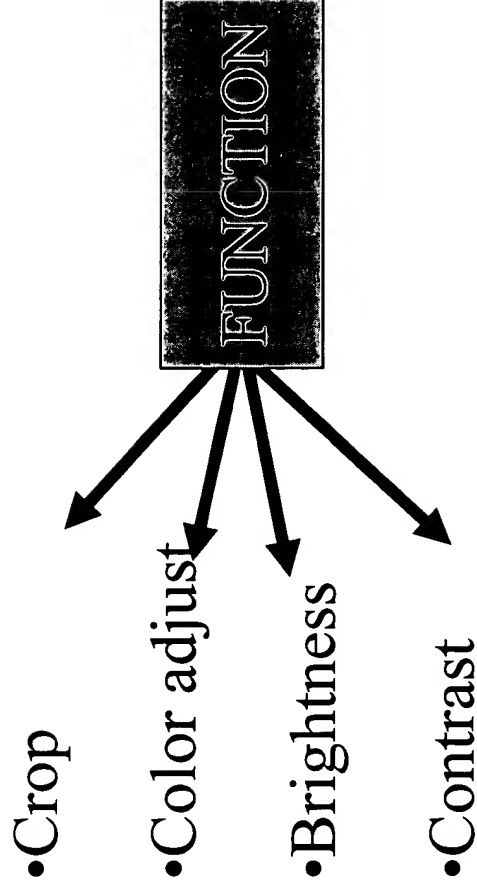
- SELECT layout
- SELECT the images
- Print